

**Cloburn Quarry Extension, Lanark, South  
Lanarkshire:  
Archaeological Mitigation**

Data Structure Report



by Douglas Gordon

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on behalf of Cloburn Quarry Development Ltd

**RATHMELL**   
ARCHAEOLOGY LTD

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Signed *A Gordon* ..... Date ...15<sup>th</sup> May 2015.....

In keeping with the procedure of Rathmell Archaeology Limited this document and its findings have been reviewed and agreed by an appropriate colleague:

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# Contents

<b>Introduction .....</b>	<b>5</b>
<b>Historical and Archaeological Background .....</b>	<b>5</b>
Previous Historic Environment Studies .....	7
Designated Sites .....	7
<b>Project Works.....</b>	<b>7</b>
<b>Findings.....</b>	<b>8</b>
Conventions.....	8
Natural Sediment .....	10
Anthropic Features .....	10
Cairn 1 .....	14
Cairn 2.....	14
Trench A .....	14
Trench B .....	14
Boulder .....	14
Finds.....	15
Other anthropic features .....	15
<b>Discussion .....</b>	<b>15</b>
<b>Recommendations .....</b>	<b>20</b>
Mitigation Works .....	20
<b>Conclusion .....</b>	<b>21</b>
<b>References .....</b>	<b>21</b>
Documentary .....	21
<b>Appendix 1: Trench Details.....</b>	<b>22</b>
<b>Appendix 2: Registers.....</b>	<b>36</b>
Context Register.....	36
Finds Register .....	39
Samples Register.....	39
Photographic Register .....	39
Drawing Register.....	46
<b>Appendix 3: Discovery &amp; Excavation in Scotland .....</b>	<b>49</b>
<b>Contact Details .....</b>	<b>50</b>

## Figures

Figure 1a: Extract from Roy's Military Survey of Scotland (1752-55).....	6
Figure 1b: Extract from Ordnance Survey 1st edition map of 1864 .....	6
Figure 2: Plan of Trenches as excavated .....	9
Figure 3a: Trench 37.....	11
Figure 3b: Cairn 1 .....	11
Figure 4: SE & SW facing sections of Cairn 2 .....	12
Figure 5: SW Facing Section of Trench A .....	13
Figure 6a: Cairn (008).....	16
Figure 6b: Boulder .....	16
Figure 7a: E Facing Section of (019) in Trench B.....	17
Figure 7b E Facing Section of (022):.....	17
Figure 8: Proposed further works .....	19

## Introduction

1. This Data Structure Report has been prepared for Cloburn Quarry Development Ltd in respect of the quarry extension at Cloburn Quarry, Lanark, South Lanarkshire (NGR: NS 9521 4149). The archaeological works were designed to determine the archaeological potential of the development area and hence inform the specification for mitigation of the impact on the archaeological remains within the development area.
2. South Lanarkshire Council required a programme of archaeological works to be undertaken as a requirement of the issued planning consent (Planning ref: CL/14/0140). The West of Scotland Archaeology Service (WoSAS), who advise South Lanarkshire Council on archaeological matters, provided guidance on the structure of archaeological works required on site in advance of extraction works.
3. Rathmell Archaeology Limited were appointed by Cloburn Quarry Development Ltd to undertake the implementation of archaeological investigative works prior to the development of the site. The project works were specified in the Written Scheme of Investigation (WSI), which was agreed with the West of Scotland Archaeology Service (Gordon 2015).
4. This report details the findings from the first phase of intrusive evaluation to be undertaken within quarry phases 1 & 2 of the development area, carried out in keeping with the Written Scheme of Investigation (Gordon 2015).

## Historical and Archaeological Background

5. The following historical and archaeological background summarizes the information provided in the Historic Environment Appraisal (Turner 2013). The desk-based assessment identified three historic environment assets within the study area.
  - ❖ S1 – hut circles and associated cultivation remains;
  - ❖ S2 – hut circles and associated cultivation remains; and
  - ❖ S3 – possible ring-cairn.
6. There are two discrete areas of upstanding archaeological remains (S1 and S2) which have been identified in the course of previous field surveys carried out by the Scottish Urban Archaeological Trust (SUAT) within the study area. These are thought to relate to prehistoric upland cultivation and settlement, and have both been characterised for the purposes of this study as '*hut circles and associated cultivation remains*'. There is also the possible ring-cairn (S3) at the summit of Swaites Hill. Though not protected under the terms of the Ancient Monuments and Archaeological Areas Act 1979, it has been assessed as being of likely schedulable quality by WoSAS. S3 is within the boundary identified as S1.
7. Each of these individual sites should be viewed as component parts in an upland landscape of prehistoric ritual and settlement activity. However, there is as yet a degree of ambiguity regarding the exact nature of these monuments and the way in which they relate to one another, both in a physical sense and in terms of their chronology. This uncertainty is best exemplified by the 'cairn' S3: this example appears to represent a typical example of a class of monument characterised by a low penannular earth and stone bank. These are, however, virtually identical in character to the footings of circular houses of prehistoric date, the so-called 'hut circles'.



Figure 1a: Extract from Roy's Military Survey of Scotland (1752-55)



Figure 1b: Extract from Ordnance Survey 1st edition map of 1864

8. A site visit was undertaken in support of the preparation of this Written Scheme of Investigation so as to identify those archaeological assets which were accessible for evaluation by hand excavation.

#### *Previous Historic Environment Studies*

9. A number of previous historic environment studies are reviewed in the Historic Environment Appraisal (Turner 2013) ranging from recovery of finds by workmen digging drains in 1862 to an archaeological assessment carried out by CFA in 2008. Within this section we restate the most relevant works.
10. SUAT carried out a programme of survey and intrusive evaluation in 2003. This work was undertaken ahead of a programme of tree-planting, carried out in order to screen the quarry workings from view within the wider landscape. It was at this time that the balance of ground between the now-afforested northern slopes of Cairngryffe Hill and the eastern/southern slopes of Swaites Hill was finally subject to the same detailed scrutiny as that which had previously been undertaken throughout the wider area.
11. SUAT identified many archaeological features consistent with a landscape of prehistoric upland settlement. SUAT's survey identified two key areas of high archaeological potential. S1 and S2, The full extent of both sites lies both within and beyond the current extent of the tree-planting. S3 is within the area identified as S1 close to the south-east boundary.
12. SUAT recorded a total of 39 component features within S1. Of these, 4 were described as hut circles indicating prehistoric occupation of the area, though it should be noted that one of the alleged 'hut circles' is S3, the supposed 'ring cairn'. Here, it has been classed as a hut circle, i.e. a domestic structure, as opposed to a funerary monument.
13. SUAT recorded one possible hut circle, four cairns (described as probable clearance cairns), one platform or cultivation terrace, three hollows, one pit or well and three ditches within S2. Again, considered on a collective basis, we can interpret this group of features as an expanse of relict prehistoric landscape, comprising a potential occupation site (the hut circle), plus the remnants of an associated field system.
14. S3 is described in the NMRS and depicted on OS mapping as a 'cairn' (Canmore ID: 47645), this feature occupies the summit of Swaites Hill at grid reference NS 9517 4137. It comprises a denuded annular bank of stone some 12m in diameter, the precise character of which is as yet uncertain: it has been described variously as a cairn (RCAHMS 1978), a possible ring-cairn (Lelong & Sharpe 1998) and a hut circle (SUAT 2003a, appendix 1, site 52).
15. Examination of S3 during the site visit suggested that the feature was in fact two penannular stone banks close together. There was the further possibility of the remains of a partially enclosing wall to the north of these features. In addition the spread of large boulders, along the south-eastern edge of the ridge were examined, these may be naturally occurring or could be manuports relating to the use of this landscape. The character of S3 and the immediately surrounding area requires further investigation.
16. Since the SUAT survey was undertaken, much of the area covered by their the proposed development area has been subject to planting for a distance stretching 150m back from the access road. A site visit confirmed the extent of the planting, and also indicated the likely extent of the damage to the subsurface deposits caused by the forestry ploughing, through comparison with plough scarring found in association with another section of screening encountered elsewhere around the active quarry workings

#### *Designated Sites*

No designated sites are known to exist within the proposed development area that were protected for their archaeological, cultural or historical merit under any historic environment designation including the Ancient Monuments and Archaeological Areas Act 1979.

#### **Project Works**

17. The archaeological evaluation, which was undertaken between the 7<sup>th</sup> and the 20<sup>th</sup> April

2015, was carried out in keeping with the methods detailed in the Written Scheme of Investigation (Gordon 2015) and the supporting Risk Assessment Method Statement (RAMS) (Gorman 2015). It consisted of the excavation of a series of intrusive trenches to expose an 8% sample of the initial phase of the development area (a minimum sample of 4900m<sup>2</sup>) to be archaeologically examined. In total 5294m<sup>2</sup> of trenching of the available land was excavated, exceeding the required 8% sample. The position of the trenches as excavated is shown on the site plan (Figure 2). As part of the evaluation there was an investigation of two probable cairns (Cairns 1 & 2) by hand excavation as well as two hand excavated trenches across Structure 1 & 2. The trench across Structure 2 was also positioned to include what appears to be a short linear bank/wall to the immediate NW. In addition the deforested area was investigated for the presence of any features/sites previously identified by SUAT. From this two further possible cairns were investigated.

18. The site consisted of a lower, northern, field which was composed of deforested ground covered in brash from felling and an upper, southern, field which was open hill pasture. Though livestock (sheep) were present within the upper field, their presence did not interfere with the on-site works. During the archaeological works the weather in general was dry.
19. Of the trenches included on the original proposed trench layout, Trenches 1-5 could not be excavated due to the presence of several hundred tons of gravel on that area, while Trench 14 was not excavated due to its position over Structure 1 and 2. Trenches 32 and 33 were also not excavated as they were located within a still-forested portion of the site. Trenches 24, 25, 34, 36 & 47 were extended to help elucidate the extent and character of potential archaeological features found within the bed of those trenches. In addition some trenches had to be repositioned due to on-site conditions and/or topography.
20. All works were conducted in accordance with the West of Scotland Archaeology Service Standard Conditions, the Chartered Institute for Archaeologists' Standards and Policy Statements and Code of Conduct and Historic Scotland Policy Statements.

## Findings

21. In total, 50 machine-dug evaluation trenches were excavated across the available portion of the development area, using a tracked 360° mechanical excavator with a toothless 2.1m ditching bucket.
22. All putative features identified within the bed of each trench were investigated in accordance with the RAMS and the WSI with many consequently being discounted as geological anomalies or products of bioturbation rather than anthropic features. Those that were determined to be anthropic in origin are described below.
23. A standardised description of each trench is contained within the *Appendix 1: Trench Summaries* at the rear of this report; all trenches are also depicted on Figure 2. *Appendix 2* contains the registers for context description, photography, drawing, sampling and finds from the project.

## Conventions

24. Where significant features are discussed their location will normally be quoted as a distance along the relevant trench (such as +23m). This distance was measured from the end of the trench quoted first for the orientation of the trench in the *Trench Summaries* in Appendix 1.



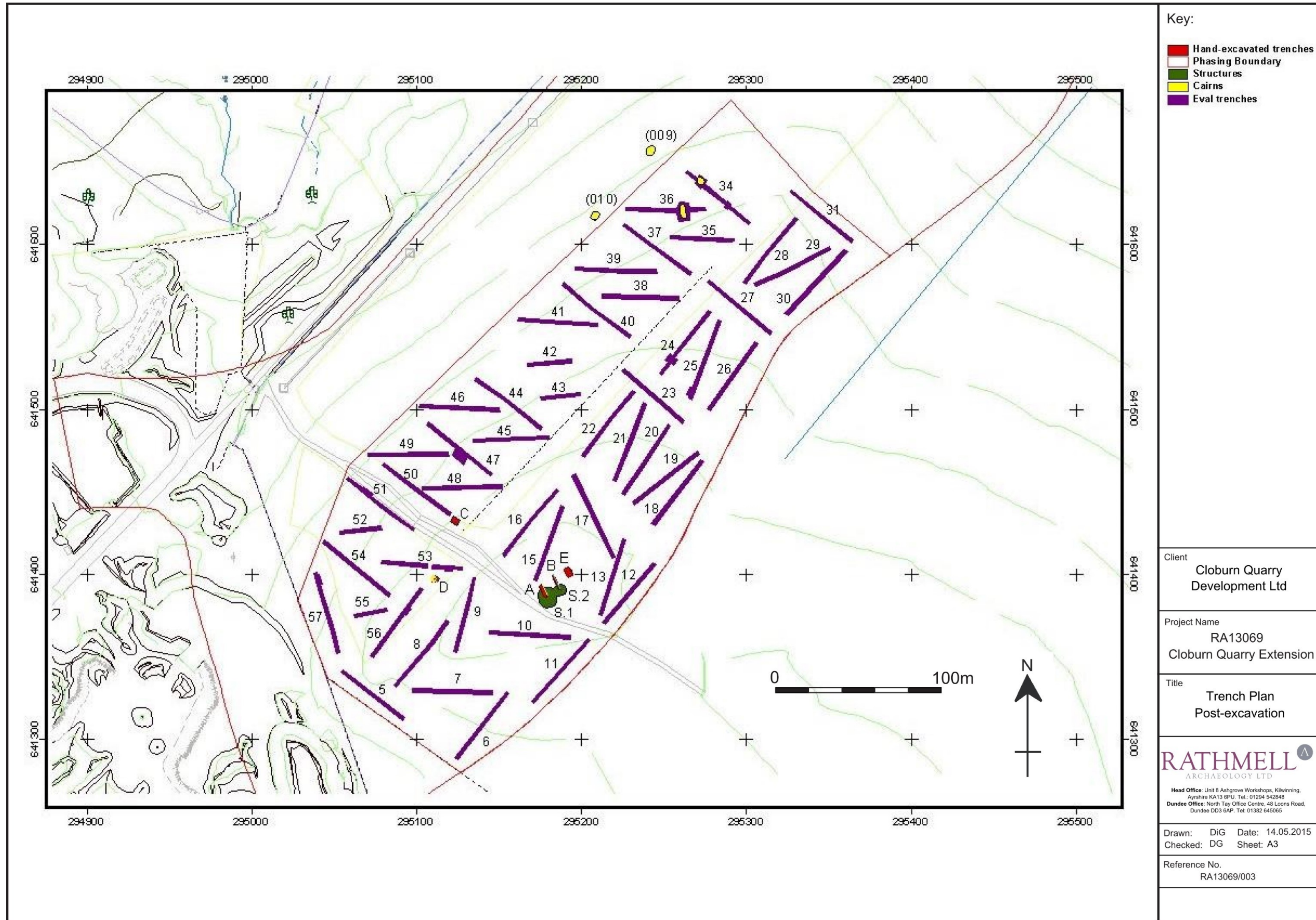


Figure 2: Plan of Trenches as excavated

25. All depths given for features are given from the base of the trench after the removal of topsoil and/or modern overburden unless otherwise stated. The reader should presume a homogenised topsoil was present in all trenches over the upper surface of the drift geology unless an alternative description is provided. Where a number of cut features were identified in close proximity, they have been described together as Feature Groups – while this may reflect an association between them, at the current time the only definite association is physical proximity.
26. The context is the basic archaeological unit of description relating to either a structure, cut or sediment of common characteristics. Structures (such as walls or built surfaces) and cut features (normally identified as they cut the underlying subsoil) are denoted by squared brackets (e.g. [040]). Sediments, including the fills of cut features, are denoted by rounded brackets (e.g. (041)).
27. When discussing features which are broadly circular in plan, our general approach is to consider those features over 500mm in diameter to be pits while those under 500mm are postholes. The difference in size is an indication only of a possible function; a posthole requires to be large enough to hold a post and associated stone packing. While a pit, which is larger, may have been dug, for example, to extract sand & gravel, to create an obstacle or for the purpose of rubbish disposal. Where clear evidence of function is present, such as packing stones, post-pipes and ramps, then such features will be described by inferred function regardless of size.

#### *Natural Sediment*

28. The topsoil (001) consisted of very dark brown sandy silt with high organic content and frequent rootlets with occasional to frequent small and medium sized stones and very occasional large stones to boulders present. In general the topsoil was generally about 110mm in depth although it could be up to 500mm deep in places. The subsoil revealed three variants: the first, (002), was a mid orange, silty clay with frequent small to medium sized stones, frequent root and occasional grey sandstone/red granite bedrock/fragments, while the second, (006), light grey/very light brown, silty clay with occasional small to medium sized grey granite inclusions and occasional root inclusions. While the third (011) was a light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone inclusions with occasional roots present. In addition bedrock (003) was also present in some trenches.

#### *Anthropic Features*

29. The vast majority of trenches revealed little other than subsoil: however, within Trench 34 a cairn (008) was uncovered at +47m. Cairn (008) was sub circular in plan, measuring 5.1-5.3m in diameter and 0.67m in height. The material of the cairn was fairly loose and consisted of small to medium sized sub angular, angular and sub rounded stones, within a topsoil like matrix.
30. In Trench 36 a second cairn (024) was uncovered at +33m. It was oval in plan measuring 8m by 3.2m and up to 0.29m in height. The cairn material was fairly loose and consisted of small to medium sized sub angular, angular and sub rounded stones, within a topsoil like matrix and frequent roots, branches and voids.
31. In addition to the cairns found within the trenches two further cairns (Figure 2) were noted within the deforested area. Cairn (009) was circular in plan measuring 6m in diameter and approximately 0.6m high. The cairn material appeared to consist of fairly loose medium sized sub angular stones within a topsoil like matrix. Whereas cairn (010) was sub circular in shape measuring 5.3-5.5m in diameter and 0.36m in height. The material of this cairn comprised small to large sub angular stones within a topsoil like matrix and frequent small and medium sized roots. A plastic wrapper was recovered from within the core of the cairn.



Figure 3a: Trench 37



Figure 3b: Cairn 1

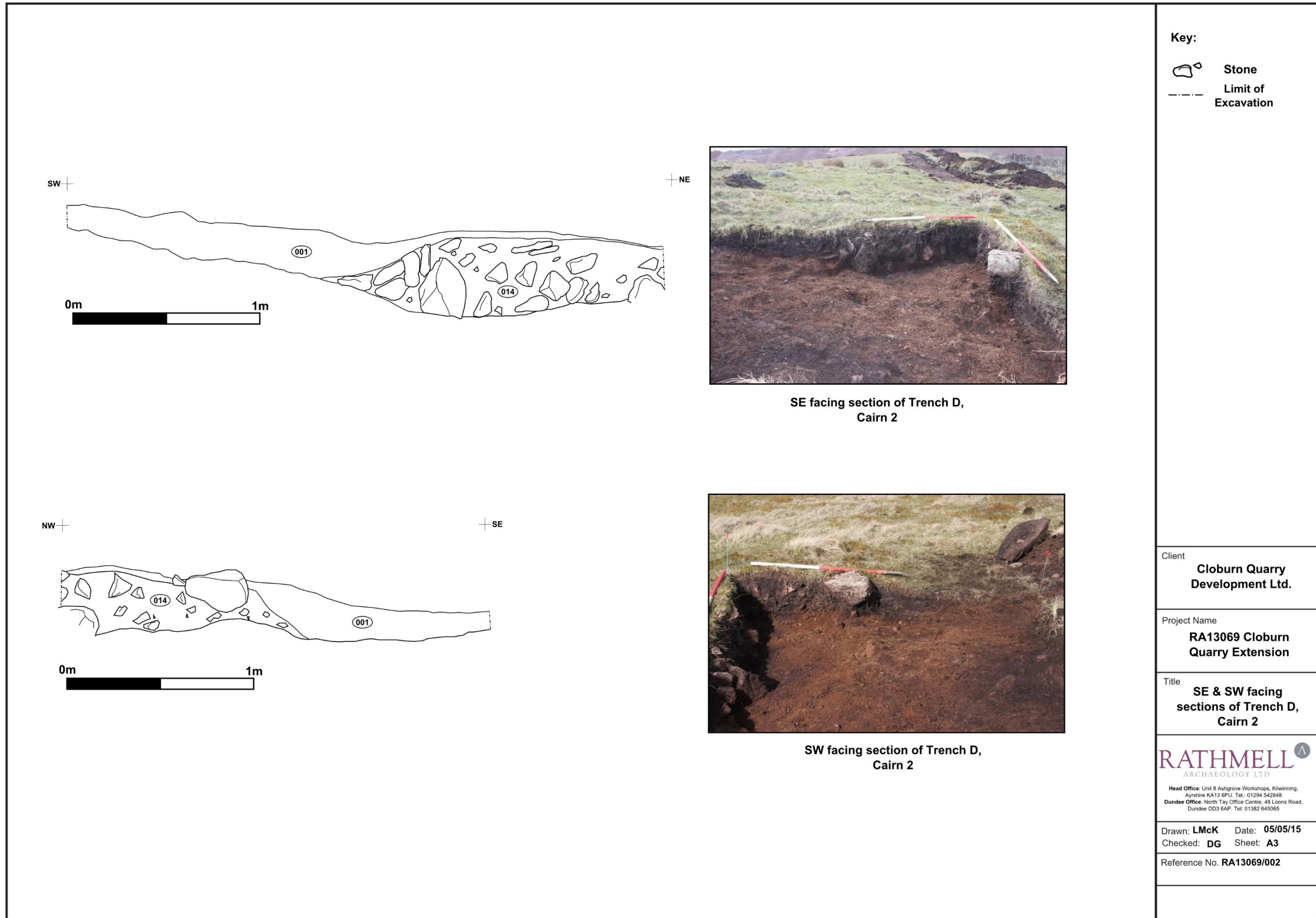


Figure 4: SE & SW facing sections of Cairn 2

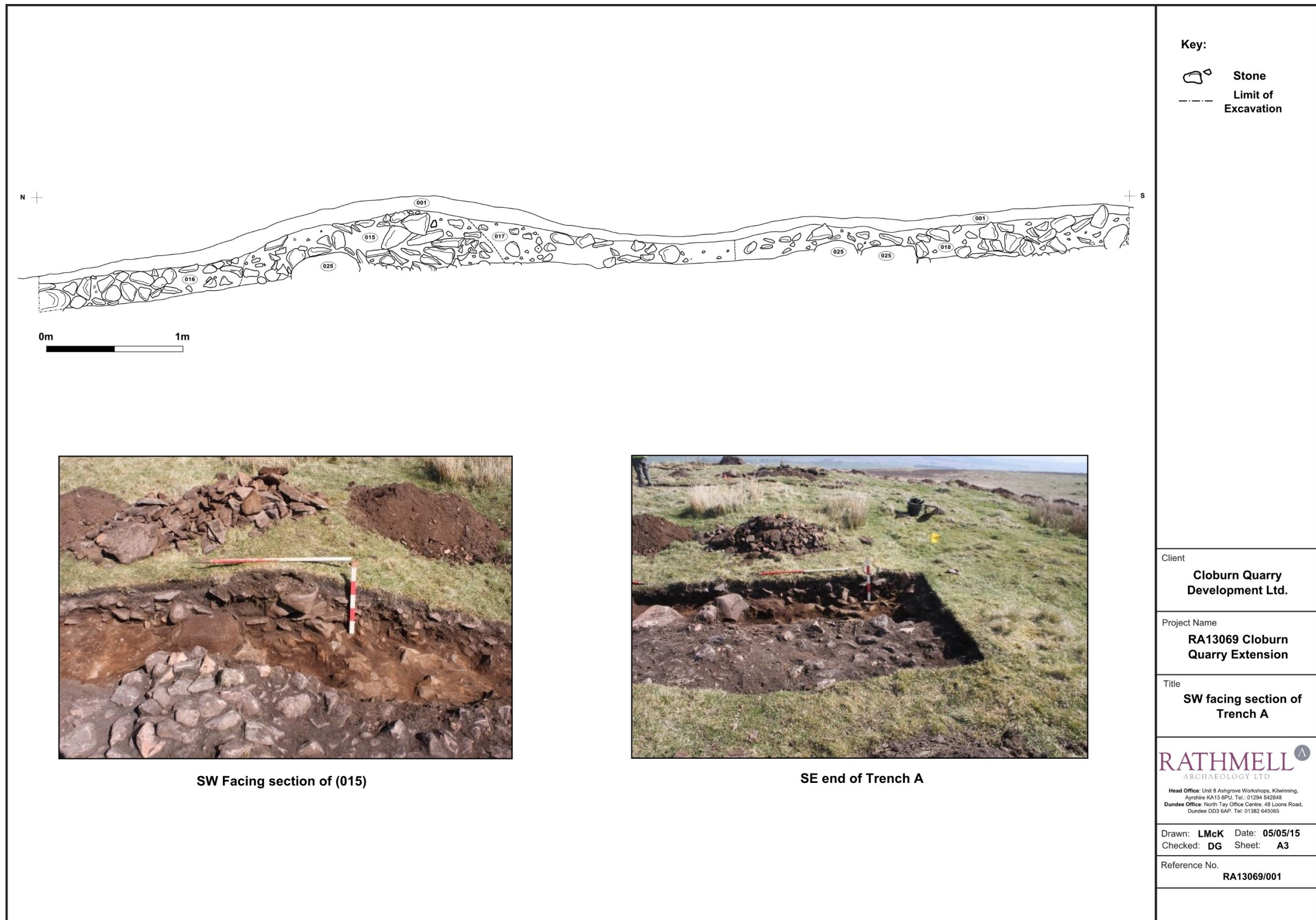


Figure 5: SW Facing Section of Trench A

*Cairn 1*

32. Cairn 1 (013) was located in the northern deforested area to the east of the track (Figure 2). When investigated, it was revealed to be sub-oval in plan, measuring 3.3m by 2.8m and 0.5m in height. It was composed of mid brown clay silt with occasional small to medium sized flat sub-angular and sub-rounded stone inclusions. (Figure 3b)

*Cairn 2*

33. Cairn 2 (014) is situated in the southern open hillside to the west of the track (Figure 4). It is circular in plan, measuring 3.5m in diameter and 0.4m in height. When investigated the ENE facing section revealed small to medium sized sub-angular, angular and sub-rounded stones within a topsoil like matrix. However the SE facing section revealed primarily topsoil with occasional stone inclusions.

*Trench A*

34. Placed over Structure 1 (Figure 2 & 5), Trench A measured 8m by 2m and was aligned N-S. It initially revealed what appeared regarded as an exterior wall (015) with sub-angular and angular stone tumble (016), (017) and (018) on either side of it.
35. When the tumble was removed from both sides of the wall, several voids were revealed on the interior side of the wall that penetrated for a depth of approximately 200mm into the core. The wall itself measured 450mm in height and was 1.9m wide at its base. When looked at in section (Figure 5) no stone courses were evident nor was there any evidence of coherent construction. There were, however, larger stones (025) present at the base of the wall, measuring approximately 400-450mm in length and 150mm in depth. Further along the trench were a further five large stones which appeared to form an arc which, if continued, would have followed the same line as those stones under the wall. This supposition must remain untested, however.
36. Excavation revealed a depth of stone measuring between 200-250mm within the interior of the structure (Figure 5). While the main cairn material comprised sub-angular and angular stones, frequent inclusions of smooth, rounded river cobbles were noted throughout.

*Trench B*

37. Trench B which measured 10m by 1m and was aligned NE-SW was excavated across Structure 2 and a short linear wall/bank to the structure's immediate NW (Figure 7a). This trench revealed two linear concentrations of stones at +0.7m (022) and +7.4m (019). (022) was 720mm wide and 220mm high and consisted of sub-angular and angular stones within a topsoil like matrix. The stones do not appear to have been deliberately constructed, i.e. there were no courses. Instead they appear as if they have been dumped in such a way to form a linear feature (i.e. a wall).
38. (019) was 800mm wide and 260mm in height consisting of sub-angular and sub-rounded stones. Like (022) there does not appear to be any coherent construction to the wall and is formed from the dumping of stone in a linear fashion.
39. Between the (019) and (022) was (023) a compact dark brown/black sandy silt with frequent small to medium sized angular and sub-angular stones. It was up to 60mm in depth extended beyond the limits of the trench and overlay subsoil (002). Many of the stones were white in colour <2> and two pieces of struck flint <1> were recovered from this context. Prior to deturfing the trench it was observed that there appeared to be narrow parallel cart tracks overlying this portion of the trench.
40. It was also noted during the excavation of the trench that there were frequent inclusion of smooth rounded river stones <3> within the various stone contexts.

*Boulder*

41. As per the WSI (Gordon 2015) an area around an earthfast boulder (Figure 6b) to the immediate NNE of Structure 2 was topsoil stripped and hand cleaned to investigate if there was any features associated with the boulder. The boulder was then lifted to see if there

were any anthropic material underneath. No archaeology was uncovered.

### *Finds*

42. Three finds were recovered during the works, these consisted of two pieces of struck flint <1> which appear to be debitage. Two more finds comprised unworked stones recovered because they stood out from the main geological material present. Find <2> comprised three fragments of stone: two were white or whitish in colour, and the third bright red. Find <3> comprised a selection of the smooth rounded river stones that were identified within (018). Finds <2> and <3> were not anthropic artefacts as such, however they were retained as oddities found within the cairn material.

### *Other anthropic features*

43. A single field drain (007) was uncovered in the course of the evaluation within Trench 44. It measured 0.7m wide 0.1m in depth and was aligned ESE-WNW. Its fill consisted of small to medium sized sub-angular, angular and sub-rounded stones.

## Discussion

44. The four cairns revealed within the deforested area were similar in nature and composition, the cairn matrix being slightly loose with no coherent structure. All appeared to have a layer of soil forming an interface between stones and subsoil, which has been interpreted as an old ground surface. On account of these characteristics, three of the four have been interpreted as being clearance cairns of uncertain age. The exception is perhaps cairn (010), from the core of which a plastic wrapper was recovered. The presence of this plastic wrapper would seem to indicate a more recent origin, and while it is possible that the wrapper may have reached this depth through bioturbation (root action), its presence away from any of the larger roots that could migrated it there would seem to gainsay this.
45. Three of the cairns (008, 009 & 010) correspond to three of the features identified by SUAT in 2003 (their nos. 25, 29 & 13). However these were the only features from the previous works which could be located in the course of this evaluation. Tree felling appears to have removed all traces of the rest within this area, which is hardly surprising given the use of heavy machinery during felling and the frequent tree throws evident across the site.
46. Given that Cairn 1 was primarily made up of soil rather than stone, it is clearly not a cairn, comprising instead an earthen mound. While it may be anthropic in origin, there was nothing revealed during its investigation to confirm that it was not a natural feature. Whatever its origins, this feature is not considered to be significant archaeology.
47. Cairn 2 on the other hand does appear to be a cairn, though from the investigation it appeared that the SE facing section had a far greater concentration of stones present within the cairn material than the opposing SE facing section. This would seem to indicate that the cairn material consists of a mixture of soil and stone rather than a deposit composed purely of stone. No artefacts or charcoal were evident within the material excavated. Given its form and nature and the lack of any anthropic material within, it appears to be a clearance cairn that has had soil either dumped against it or built up against it.
48. The presence of the cairns identified previously within the landscape by SUAT (SUAT 2003) and further explored during these works is curious. Investigation certainly supported the possibility that they were clearance cairns - given the stony nature of the soil, subsoil and general area, their presence is not really surprising to find. However no evidence of ploughing was observed during the evaluation, which leads one to question what need there was to create these cairns. It is possible that any associated evidence of ploughing has not survived, with these cairns probably deriving from a short lived attempt at cultivation which failed in the face of such stone rich ground. It may also relate to some form/attempt at land improvement.



Figure 6a: Cairn (008)



Figure 6b: Boulder





Figure 7a: E Facing Section of (019) in Trench B



Figure 7b E Facing Section of (022):

49. Within Trench A, (015) was initially interpreted as a wall. However, further investigation showed no coherent construction in its build. In addition, the presence of voids within the interior side of (015) leads to the conclusion that it is not actually a wall at all, comprising instead a dumped or piled rickle of stony material. Taking into consideration the concentration stone material within the trench, (015) seems more likely to represent part of the remains of a cairn. This is in keeping with observations made in the 1970s by the Royal Commission on Ancient and Historical Monuments of Scotland (RCAHMS) which described this feature as *'The slight remains of a Cairn.....The centre has been totally removed, leaving only a stony rim 0.5m high'*. The evaluation has shown, however, that the interior of the cairn has not been totally removed.
50. The larger stones (025) at the base of the cairn's 'rim' (015) may represent the remains of a kerb that once defined the cairn's perimeter. However, given the small size of the trench, it is impossible to establish whether this is indeed the case. It is possible, for example, that the larger stones were naturally occurring features utilised during the construction of this portion of the cairn. It is, however, possible that the arc of larger stones within the trench in fact continued under the unexcavated portion of the trench before joining up with those found at the base of (015), perhaps even representing the remains of an older structure. However both theories remain untested and further work would be required to ascertain whether or not either scenario is correct.
51. The presence of smooth river stones within the putative cairn material within Trench A was unusual. The majority of the stone material encountered during the evaluation was either red or grey sandstone, and while there was a small burn located downhill to the northwest, this could not have produced stones in sufficient quantity to match what was found. The nearest substantial river is the River Clyde: lying 2.5-3km to the west, east and north of the site, it forms at this point a large loop encompassing an area measuring approximately 1550ha in extent, within which is located not only the study area but many other prehistoric sites such as the Blackhouse Burn Enclosure (Canmore ID: 47640). It seems highly likely that the river-worn stones encountered here had in fact been transported a considerable distance from the low-lying environs of the River Clyde to the top of this hill.
52. In contrast to Trench A, Trench B exhibited less stony material within it. Like (015), the two walls (019) and (022) in Trench B had no coherent form of construction and appeared to comprise material dumped in in the form of rough banks or walls. (022) appeared to be part of a short bank, measuring approximately 5m in length and aligned NW-SE and situated just to the NW of Structure 2. During the investigation stony material was excavated from the SE of (019) though not in the same quantity as within Trench A. Whether this was cairn material or tumble was not clear within confines of the trench.
53. The most interesting items occurring within the two trenches were two small pieces of struck flint <1> recovered from deposit compact dark brown/black sandy silt (023) which was situated between the stone rickles (019) and (022). Deposit (023) was also of interest in that it was quite compact in comparison to other contexts noted nearby, perhaps suggesting a trampled surface, i.e. an area that had enough experienced foot traffic over a sufficient period to compact the soil. One thing that stood out was the frequent presence of white angular and sub-angular stones within (023). The majority of the stones occurring across the whole of the investigated area were either red or grey in colour, so these white stones stood out in comparison. Like the smooth river stones, it would appear that these white stones were carried to the site and deposited deliberately with (023). It should be noted that roughly parallel tracks were observed in the topsoil over deposit (023), which may be indication of a cart track running over the area. Such a feature might account for the compaction of deposit (023) though not for the presence of the struck flint.
54. A boulder located just to the immediate NE of Structure 2 was investigated to ascertain whether it was a naturally occurring earthfast boulder or a deliberately-placed standing stone. No evidence for its having been set up as a standing stone was uncovered in the course of these investigations.

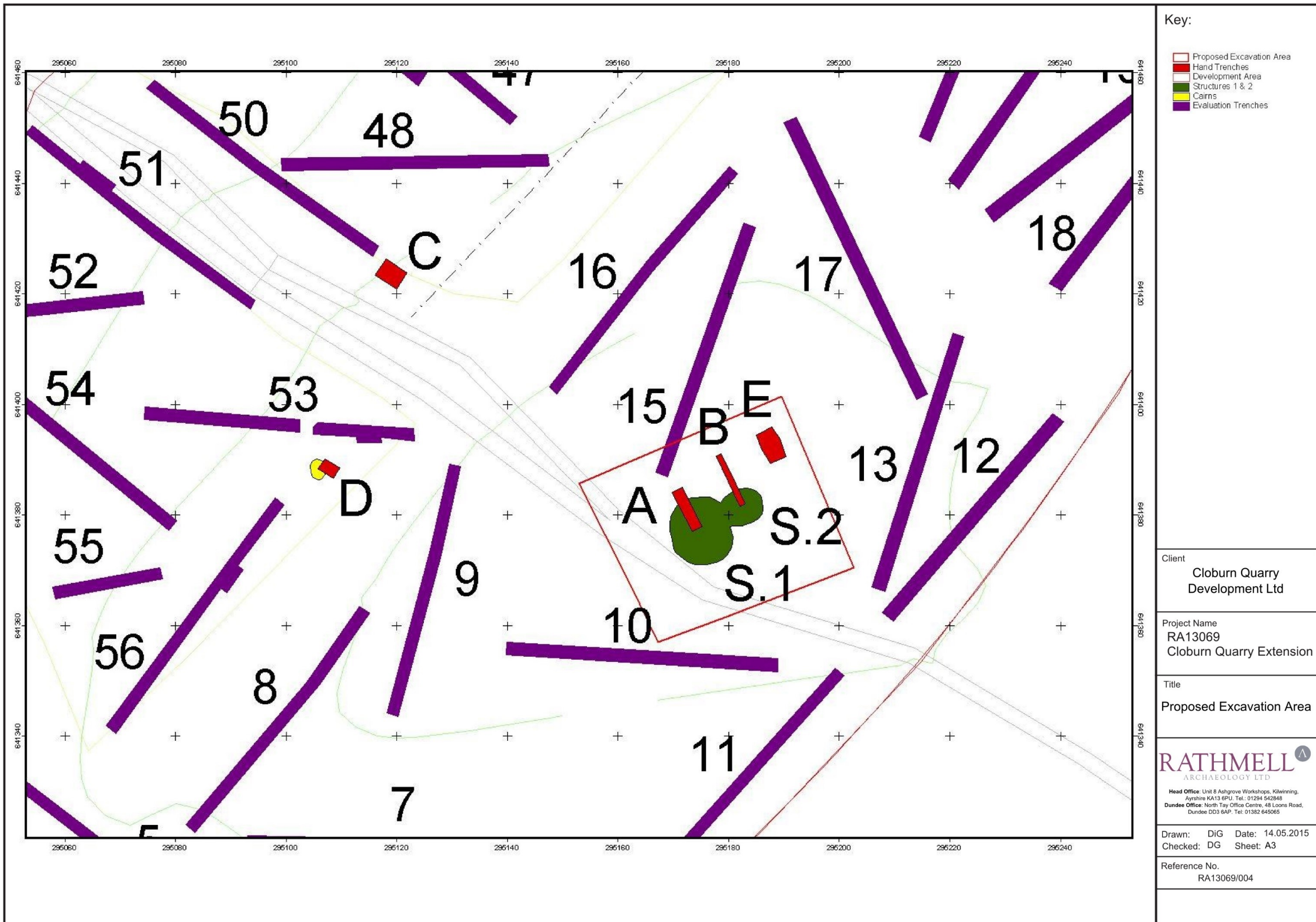


Figure 8: Proposed further works

55. The presence of two pieces of struck flint recovered from near Structure 2 indicates prehistoric activity was occurring in this area and this by association may indicate a prehistoric date for both Structure 2 and 1.

## Recommendations

56. This archaeological evaluation has examined the archaeological potential across a portion of the extension area of the quarry. The archaeological sites identified within earlier SUAT work have not proven to be consistently sound when tested and the new evaluation trenches have not located or confirmed extensive archaeological features. Therefore, we recommend that archaeological mitigation within this phase of the extension is focused solely on confirmed archaeological sites with no additional mitigation work on the intervening areas.
57. The details of the mitigation work recommended is laid out below. The acceptability of these mitigation works to satisfy the planning authority needs to be confirmed with WoSAS and South Lanarkshire Council in advance of their implementation.
58. With regards to Cairn 1, no further work is recommended, whereas Cairn 2 should be removed by a combination of machine and hand excavation to confirm that it is a clearance cairn. The same should be carried out on the two cairns (008) and (024) located within the clear felled area. Given the loss of the known sites within the deforested area due to previous planting and felling operations, we recommend that no further works take place there.
59. Given that the evidence from the evaluation appears to show that the structures are likely to be prehistoric in origin, Structures 1 and 2 are the only features which are deemed to be of potential archaeological significance. Due to this and to their likely loss due to the quarry extension it is the recommendation of Rathmell Archaeology that a full excavation be carried out on these structures and for an area up to 10m around the structures (see Figure 8 for the defined excavation area).

### *Mitigation Works*

60. Further to our recommendation of a programme of works, we propose that they follow the following structure, adapting and amending the existing structure detailed in the Written Scheme of Investigation (Gordon 2015).
61. In addition to the objectives already laid out in the WSI (*Ibid*, paragraph 19), new objectives would also be added:
- ❖ to identify any archaeological remains which might not be readily visible on the surface;
  - ❖ to characterise the origins of the structures and identify any different stages of their development and function; and
  - ❖ to recover artefactual evidence which adds to the understanding of the Cairns' development.
62. These objectives are to be achieved by excavation of the 100m<sup>2</sup> area centred on the Structures 1 and 2.
63. Due to the nature of the site as shown by the evaluation works, this excavation would initially take the form of a topsoil strip around the Structures by machine, using a 13 tonne excavator or equivalent with a smooth ditching bucket. The machine would remove topsoil and any overburden across the immediate area around Structures 1 and 2 in order to expose any unknown archaeological remains. The remainder of the topsoil across the structures is to be removed by hand. The extent of the area to be stripped is shown in Figure 8 above.
64. The stripped areas and exposed structural remains would then be hand cleaned before the following excavation works would go on to match the procedures as laid out under *Project Works* of the WSI (*Ibid* 2015, paragraphs 51-56). The findings from the excavation would then be presented in a preliminary technical report as detailed in the WSI (*Ibid* 2015,

paragraphs 57-59).

65. The works may then be subject to a programme of post-excavation analyses following on to publication, as detailed in paragraphs 60-69 of the WSI (*Ibid* 2015). However the exact scope of the post-excavation and publication works remain uncertain at this stage. The strategy for these later phases cannot be confirmed until after the initial on-site works have been completed, at which time a costed Post-Excavation Research Design will be prepared for circulation, as detailed in paragraphs 60-61 of the Method Statement (*Ibid* 2015).

## Conclusion

66. A programme of archaeological investigative works was carried out for Cloburn Quarry Development Ltd respect of the quarry extension at Cloburn Quarry, Lanark, South Lanarkshire (CL/14/0140). The archaeological works were designed to determine the archaeological potential of the development area and hence inform the specification for mitigation of the impact on the archaeological remains within the development area.
67. The works showed that previously identified structure (Canmore ID: 47645) was in all likelihood a prehistoric cairn, with the presence of struck flint further supporting a prehistoric date for the feature.

## References

### *Documentary*

CFA 2008 *Proposal to Extend Quarry Excavation Area & Access Road, Cloburn Quarry, South Lanarkshire. Environmental Impact Assessment- Cultural Heritage. Report no. 1435.* Unpublished Report

Lelong & Sharpe, O & L 1998 'Blackhouse Burn Environs (Chester Hill, Swaites Hill, Cairngryffe Hill)' *Discovery Excav Scot* 1998, 82

RCAHMS 1978 *Lanarkshire: An Inventory of the Prehistoric and Roman monuments.* Edinburgh

SUAT 2003 *An Archaeological Upland Survey at Swaites Hill by Pettinain, Lanarkshire.* Unpublished Report

Turner, L., 2013, *Colburn Quarry, near Pettinain, Lanarkshire: Historic Environment, Historic Environment Appraisal,* Rathmell Archaeology Ltd

### *Policy, Standards & Guidance*

Historic Scotland 2008 *Scoping of Development Proposals; Assessment of Impact on the Setting of Historic Environment Resource – Some General Considerations*

Historic Scotland 2011 *Scottish Historic Environment Policy*

Chartered Institute for Archaeologists 2009 *Standard and Guidance for Archaeological Desk-Based Assessment*

Chartered Institute for Archaeologists 2010 *Code of Conduct*

Scottish Government 2010 *Scottish Planning Policy*

Scottish Government 2011 *PAN 2/2011 Planning & Archaeology*

### *Legislation*

Ancient Monuments and Archaeological Areas Act 1979

Historic Environment (Amendment) (Scotland) Act 2011

Planning (Listed Buildings and Conservation Areas) (Scotland) Act 1997

Planning etc. (Scotland) Act 2006

Town and Country Planning (Scotland) Act 1997

## Appendix 1: Trench Details

Within this appendix a standardised set of data pertaining to the evaluation trenches is presented.

All measurement distances quoted along the trench measure based on the quoted orientation of the trench.

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
1	-	-	-	Not Excavated	-	-	-
2	-	-	-	Not Excavated	-	-	-
3	-	-	-	Not Excavated	-	-	-
4	-	-	-	Not Excavated	-	-	-
5	SE-NW	2.1m by 49m  102.9m <sup>2</sup>	110 – 190mm	(011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions.	None	None	None
6	SW-NE	2.1m by 50.8m  106.68m <sup>2</sup>	200 – 280mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
7	W-E	2.1m by 48.8m  102.48m <sup>2</sup>	190 – 250mm	From 0 to +22m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +22m to +38.5m (004) Sub-angular, sub-rounded and angular, small to medium sized stone within topsoil-like matrix. From +38.5m to +48.8m (002).	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
8	NE-SW	2.1m by 51.8m  108.78m <sup>2</sup>	80 – 180mm	From 0 to +12.6m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions. From +12.6m to +51.8m (003) Grey and red sandstone/granite outcrops	None	None	None
9	N-S	2.1m by 48.1m  101.01m <sup>2</sup>	90 – 190mm	From 0 to +7m (012) Spread of small to large, flat, sub-angular and sub-rounded grey sandstone within topsoil-like matrix. From +7m to +19.4m (003) Grey and red sandstone/granite outcrops. From +19.4m to +27.6m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions. From +27.6m to +48.1m (003).	None	None	None
10	ESE-WNW	2.1m by 48.9m  102.69m <sup>2</sup>	250 – 300mm	From 0 to +7.5m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +7.5m to +10.5m (003) Grey and red sandstone/granite outcrops. From +10.5 to +19m (002). From +19m to +29m (004) Sub-angular, sub-rounded and angular, small to medium sized stone within topsoil-like matrix. From +29 to +48.9m (002).	None	None	None
11	SW-NE	2.1m by 50.7m  106.47m <sup>2</sup>	220 – 350mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
12	SW-NE	2.1m by 45m  94.5m <sup>2</sup>	230 – 300mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
13	NE-SW	2.1m by 49m  102.9m <sup>2</sup>	290 – 400mm	From 0 to +11m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +11m to +13.5m (003) Grey and red sandstone/granite outcrops. From +13.5 to +49m (002)	None	None	None
14	-	-	-	Not Excavated	-	-	-
15	SSW-NNE	2.1m by 48.3m  101.43m <sup>2</sup>	250 – 300mm	From 0 to +17m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +17 to +19.5m (001) Very dark brown, sandy silt with occasional small stone inclusions and frequent small root inclusions. From +19.5 to +32m (002). From +32m to +38.5m (003) Grey and red sandstone/granite outcrops. From +38.5 to +348.3m (002).	None	None	None



Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
16	NE-SW	2.1m by 51.8m  108.78m <sup>2</sup>	100 – 140mm	From 0 to +12.2m (012) Spread of small to large, flat, sub-angular and sub-rounded grey sandstone within topsoil-like matrix. From +12.2m to +34.7m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions. From +34.7m to +51.8m (012)	None	None	None
17	NNW--SSE	2.1m by 55.2m  115.92m <sup>2</sup>	250 – 310mm	From 0 to +14m (006) Light grey/very light brown, silty clay with occasional small to medium sized grey granite inclusions and occasional root inclusions. From +14m to +55.2m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
18	SW-NE	2.1m by 51.4m  107.94m <sup>2</sup>	270 – 350mm	From 0 to +46m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +46 to +51.4m Waterlogged.	None	None	None
19	SW-NE	2.1m by 54.3m  114.03m <sup>2</sup>	200 – 270mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
20	SW-NE	2.1m by 50.1m  105.21m <sup>2</sup>	230 – 320mm	From 0 to +13m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions. From +13m to +50.1m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
21	NNE-SSW	2.1m by 50.7m  106.47m <sup>2</sup>	230 – 300mm	(011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions.	None	None	None
22	NE-SW	2.1m by 49m  102.9m <sup>2</sup>	120 – 200mm	(011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions.	None	None	None
23	NW-SE	2.1m by 49.6m  104.16m <sup>2</sup>	180 – 300mm	From 0 to +31.2m (003) Grey and red sandstone/granite outcrops. From +31.2m to +49.6m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions.	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
24	NE-SW	2.1m by 44.8m & 5.5m by 5m  121.58m <sup>2</sup>	260 – 290mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
25	N-S	2.1m by 46.9m & 4m by 5m  118.49m <sup>2</sup>	340 – 400mm	From 0 to +3.4m waterlogged. From +3.4m to +30m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions. From +30m to +37.5m (003) Grey and red sandstone/granite outcrops. From +37.5m to +44.4m (011). From +44.4m to +45.3m (012) Spread of small to large, flat, sub-angular and sub-rounded grey sandstone within topsoil-like matrix. From +45.3m to +50.05m (003). From +50.05m to +51.9m (011).	None	None	None
26	SW-NE	2.1m by 50.1m  105.21m <sup>2</sup>	300 – 330mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
27	NW-SE	2.1m by 50.6m  106.26m <sup>2</sup>	220 – 310mm	From 0 to +27.2m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions. From +27.2m to +46.1m (003) Grey and red sandstone/granite outcrops. From +46.1m to +50.6m (011).	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
28	N-S	2.1m by 50.8m  106.68m <sup>2</sup>	240 – 290mm	From 0 to +30m (003) Grey and red sandstone/granite outcrops. From +30m to +39.5m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions. From +39.5m to +50.8m (003).	None	None	None
29	N-S	2.1m by 52.6m  110.46m <sup>2</sup>	230mm	From 0 to +3.2m (003) Grey and red sandstone/granite outcrops. From +3.2m to +26m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions. From +26m to +52.6m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
30	SW-NE	2.1m by 50.3m  105.63m <sup>2</sup>	240 – 250mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
31	NW-SE	2.1m by 49.6m  104.16m <sup>2</sup>	180 – 250mm	From 0 to +31m (003) Grey and red sandstone/granite outcrops. From +31m to +49.6m (011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions.	None	None	None
32	-	-	-	Not Excavated	-	-	-
33	-	-	-	Not Excavated	-	-	-

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
34	SE-NW	2.1m by 45.9m & 9m by 5m  141.39m <sup>2</sup>	180 – 360mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	From +47m to +52.2m (008) Possible clearance cairn (modern).	None	None
35	W-E	2.1m by 39.4m  82.74m <sup>2</sup>	200 – 300mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
36	NW-SE	2.1m by 39.7m & 10.5m by 8.5m  172.62m <sup>2</sup>	130 – 300mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	From +33m to +36.4m (024) Possible clearance cairn (modern).	None	None
37	SE-NW	2.1m by 51.5m  108.15m <sup>2</sup>	120 – 300mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
38	E-W	2.1m by 48.5m  101.85m <sup>2</sup>	80 – 220mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
39	WNW-ESE	2.1m by 49.2m  103.32m <sup>2</sup>	170 – 230mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
40	SE-NW	2.1m by 52.8m  110.88m <sup>2</sup>	140 – 230mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
41	W-E	2.1m by 47.7m  100.17m <sup>2</sup>	220 – 350mm	From 0 to +9m (006) Light grey/very light brown, silty clay with occasional small to medium sized grey granite inclusions and occasional root inclusions. From +9m to +47.7m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
42	E-W	2.1m by 27.7m  58.17m <sup>2</sup>	140 – 290mm	From 0 to +9.3m (006) Light grey/very light brown, silty clay with occasional small to medium sized grey granite inclusions and occasional root inclusions. From +9.3m to +47.7m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
43	WSW-ENE	2.1m by 24.6m  51.66m <sup>2</sup>	140 – 290mm	(006) Light grey/very light brown, silty clay with occasional small to medium sized grey granite inclusions and occasional root inclusions.	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
44	SE-NW	2.1m by 52.7m  110.67m <sup>2</sup>	220 – 380mm	From 0 to +46.4m (006) Light grey/very light brown, silty clay with occasional small to medium sized grey granite inclusions and occasional root inclusions. From +46.4 to +49.4m (003) Grey and red sandstone/granite outcrops. From +49.4m to +52.7m (006).	From +19m to +19.7m [007] Possible rubble filled drain.	None	None
45	W-E	2.1m by 46.3m  97.23m <sup>2</sup>	80 – 150mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
46	WNW-ESE	2.1m by 48.7m  102.27m <sup>2</sup>	60 – 130mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
47	SE-NW	2.1m by 51.4m  107.94m <sup>2</sup>	150 – 180mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
48	W-E	2.1m by 48.8m  102.48m <sup>2</sup>	100 – 150mm	From 0 to +47.8m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +47.8m to +48.8m (003) Grey and red sandstone/granite outcrops.	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
49	W-E	2.1m by 49.4m  103.74m <sup>2</sup>	120 – 150mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
50	SE-NW	2.1m by 54m  113.4m <sup>2</sup>	180mm	From 0 to +3m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +3m to +4.5m (003) Grey and red sandstone/granite outcrops. From +4.5m to +54m (002).	None	None	None
51		2.1m by 46.2m & 6.6m by 4m  123.42m <sup>2</sup>	170 – 240mm	From 0 to +36m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +36m to +41.5m (005) Sub-angular, sub-rounded and angular, small to medium sized stone within topsoil-like matrix. From +41.25m to +52.8m (002)	None	None	None
52	WNW-ESE	2.1m by 25.9m  54.39m <sup>2</sup>	180 – 240mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None



Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
53	ESE-WNW	2.1m by 50.8m  106.68m <sup>2</sup>	100 – 150mm	From 0 to +9.5m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +9.5m to +20m (003) Grey and red sandstone/granite outcrops. From +20m to +50.8m (002).	None	None	None
54	SE-NW	2.1m by 53.8m  112.98m <sup>2</sup>	210 – 280mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
55	WNW-ESE	2.1m by 20.3m  42.63m <sup>2</sup>	210 – 280mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None
56	SW-NE	2.1m by 52.3m  109.83m <sup>2</sup>	100 – 130mm	From 0 to +22.3m (003) Grey and red sandstone/granite outcrops. From +22.3m to +28.7m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +28.7m to +37.7m (012) Spread of small to large, flat, sub-angular and sub-rounded grey sandstone within topsoil-like matrix. From +37.7m to +52.3m (002).	None	None	None

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
57	N-S	2.1m by 44.3m & 7m by 3.8m  119.63m <sup>2</sup>	120 – 160mm	From 0 to +1.5m (002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments. From +1.5m to +7m (004) Sub-angular, sub-rounded and angular, small to medium sized stone within topsoil-like matrix. From +7m to +35m (002). From +35m to +48.3m (003) Grey and red sandstone/granite outcrops. From +48.3m to +51.3m (002).	None	None	None

#### Hand Excavated Trenches

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
A	NW-SE	2m by 8m  16m <sup>2</sup>	200 – 550mm	(026) Light to mid orange brown silty sand with moderate to frequent small to medium stone inclusions.	None	[015] Structure 1. Sub-circular shaped, drystone built structure. (016) Rubble layer NW of wall [015]. (017) Rubble layer SE of wall [015]. (018) Rubble layer at SE end of Trench A. (025) Possible structural stones under structure 1.	Find No. 3

Trench	Orientation	Size	Topsoil Depth	Subsoil Character	Modern/ Agricultural Features	Significant Features	Artefacts
B	NW-SE	1m by 10m  10m <sup>2</sup>	220 – 260mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	[019] Possible internal wall within Structure 2. (020) Internal rubble within Structure 2. SE of wall [019]. (021) Internal rubble within Structure 2. NW of wall [019]. [022] Main stone wall/bank of Structure 2.	Find No's. 2 & 3
C	NW-SE	5m by 10m  50m <sup>2</sup>	500mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	(013) Possible clearance cairn (modern). Cairn 1	None
D	NW-SE	2.1m by 3.1m  6.5m <sup>2</sup>	120 – 480mm	(011) Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions.	None	(014) Possible clearance cairn (modern). Cairn 2	None
E	NW-SE	6m by 4m  24m <sup>2</sup>	220-240mm	(002) Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	None	None	None

## Appendix 2: Registers

Within this appendix are all registers pertaining to works on-site during the evaluation.

### Context Register

Context No.	Area/ Trench	Type	Description	Interpretation
001	All	Deposit	Very dark brown, sandy silt with occasional small stone inclusions and frequent small root inclusions.	Topsoil
002		Deposit	Mid orange, silty clay with frequent small to medium sized stone, frequent root inclusions and occasional grey sandstone/red granite bedrock/fragments.	Natural Subsoil
003		Deposit	Grey and red sandstone/granite outcrops	Bedrock
004		Deposit	Sub-angular, sub-rounded and angular, small to medium sized stone within topsoil-like matrix.	Stone concentrations
005	T51	Deposit	Sub-angular, sub-rounded and angular, small to medium sized stone within topsoil-like matrix.	Stone concentrations
006		Deposit	Light grey/very light brown, silty clay with occasional small to medium sized grey granite inclusions and occasional root inclusions.	Natural Subsoil
007	T44	Cut/fill	ESE-WNW orientated linear. Width of 0.7m and depth of 0.1m. Fill consisted of small to medium sized grey granite fragments within topsoil-like matrix. Cut into natural subsoil (006).	Possible rubble filled drain
008	T34	Deposit	Sub-circular shaped in plan. Measured 5.3m by 5.1m and had a height of 0.67m. Cairn material consisted of small to medium sized sub-angular, angular and sub-rounded grey granite fragments within a topsoil-like matrix.	Possible clearance cairn (modern)
009	Lower (N) field. Outwith trench layout.	Deposit	Circular shaped in plan. Diameter 6m and had height of 0.6m. Cairn material consisted of small to medium sized sub-angular, angular and sub-rounded grey granite fragments within a topsoil-like matrix.	Possible clearance cairn (modern)

Context No.	Area/ Trench	Type	Description	Interpretation
010	Lower (N) field. Outwith trench layout.	Deposit	Sub-circular in plan. Measured 5.5m by 5.3m and had height of 0.36m. Cairn material consisted of small to large sized sub-angular, angular stones within a topsoil-like matrix. Very frequent roots. Loosely compacted.	Possible clearance cairn (modern)
011		Deposit	Light to mid brown, sandy silt with small sub-angular, angular and sub-rounded stone with occasional root inclusions.	Natural Subsoil
012	Upper (S) field.	Deposit	Spread of small to large, flat, sub-angular and sub-rounded grey sandstone within topsoil-like matrix.	Natural stone concentrations/subsoil
013	Cairn 1	Deposit	Sub-oval in plan. Measured 3.3m by 2.8m and had a height of 0.5m. Cairn consisted of occasional small to medium, flat, sub-angular and sub-rounded red granite and grey sandstone within topsoil-like and mid brown clayey silt matrix. There was also frequent roots and occasional animal burrow evidence within the cairn material.	Possible clearance cairn (modern).
014	Cairn 2	Deposit	Circular in plan. Diameter 3.5m and height of 0.4m. Cairn consisted of very frequent small to medium sized, sub-angular and sub-rounded red granite and grey sandstone within black/brown organic silt matrix.	Possible clearance cairn (modern).
015	Trench A	Structure	Low, rough, unfaced, wall measuring 0.8-1.1m in width and a height of 0.4m. The wall was constructed using very frequent small to medium sized sub-angular, angular and flat shaped grey sandstone and red granite within a mid to dark brown silt matrix. The wall overlay large possibly structural stones (025) which were set into the underlying natural subsoil (026).	The rim of Structure 1.
016	Trench A	Deposit	Spread of moderate to loosely compacted small to medium sized sub-angular, angular and flat shaped grey sandstone and red granite within a mid to dark brown silt matrix. Spread had a thickness range of 0.19-0.21m. Partially overlies wall [015].	Rubble layer NW of wall [015].
017	Trench A	Deposit	Spread of moderate to loosely compacted small to medium sized sub-angular, angular and flat shaped grey sandstone and red granite within a mid to dark brown silt matrix. Spread had a thickness range of 0.14-0.29m. Partially overlies wall [015].	Rubble layer SE of wall [015].

Context No.	Area/ Trench	Type	Description	Interpretation
018	Trench A	Deposit	Spread of moderate to loosely compacted small to medium sized sub-angular, angular and flat shaped grey sandstone and red granite within a mid to dark brown silt matrix. Spread had a thickness range of 0.14-0.26m. Unclear relationship with layer (017). Overlies large possibly structural stones (025) which were set into the underlying natural subsoil (026).	Rubble layer at SE end of Trench A.
019	Trench B	Structure	Linear concentration of stones measuring 0.68-0.71m in width and a height of 0.26m. The wall was constructed using frequent small to medium sized sub-angular, angular and flat shaped grey sandstone and red granite within a mid to dark brown silt matrix.	Wall/Bank to the immediate NW of Structure 2
020	Trench B	Deposit	Spread of moderate to loosely compacted small to medium sized sub-angular, angular and flat shaped grey sandstone and red granite within a mid to dark brown silt matrix.	Rubble to SE of wall [019]
021	Trench B	Deposit	Spread of moderate to loosely compacted small to medium sized sub-angular, angular and flat shaped grey sandstone and red granite within a mid to dark brown silt matrix.	Rubble to NW of wall [019]
022	Trench B	Deposit	Linear concentration of stones. Measuring 0.72-0.82m in width and a height of m. The wall was constructed using frequent small to medium sized sub-angular, angular and flat shaped grey sandstone and red granite within a mid to dark brown silt matrix.	Main stone wall/bank of Structure 2.
023	Trench B	Deposit	Dark brown/black sandy silt with frequent small to medium sized, angular and sub-angular, stone inclusions.	Natural
024	Trench 36	Deposit	Oval shaped in plan. Measured 8m by 3.2m and had a height of 0.29m. Cairn material consisted of small to medium sized sub-angular, angular and sub-rounded grey granite fragments within a topsoil-like matrix. Overlay disturbed natural (002). Frequent roots, branches and voids	Possible clearance cairn (modern)
025	Trench A	Structural	Large flat and sub-angular stones. Form possible semicircle under structure 1. Width range of 0.3-0.32m. Set into underlying subsoil (026)	Possible structural stones under structure 1
026	Trench A	Deposit	Light to mid orange brown silty sand with moderate to frequent small to medium stone inclusions.	Natural

*Finds Register*

Find No.	Area/Trench	Context No.	Material Type	Description	Excavator	Date
1	B	023	Lithic	2 x possibly worked flint	DG & LMCK	23/04/15
2	B	023	Lithic	3 x stone	DG	23/04/15
3	A	018	Lithic	6 x rounded stone	DG	23/04/15

*Samples Register*

Sample No.	Area/Trench	Context No.	Sample Type	Description	Excavator	Date
001	Trench B		1 x Small Bag	Charcoal	DiG	23/04/15

*Photographic Register*

## Photographic Record 1

Image No.	Digital	Description	From	Date
001	001	Pre excavation shot of Trenches 51-57	S	07/04/15
002	002	General shot of the quarry works	SE	07/04/15
003	003	General shot of the quarry works	SE	07/04/15
004	004	General shot of the quarry works	SSE	07/04/15
005	005	General shot of the landscape	S	07/04/15
006	006	General shot of the landscape	SSW	07/04/15
007	007	General shot of the landscape	SE	07/04/15
008	008	General shot of the quarry works	SE	07/04/15

Image No.	Digital	Description	From	Date
009	009	Post excavation shot of Trench 50	SE	08/04/15
010	010	Working shot	S	08/04/15
011	011	Working shot	S	08/04/15
012	012	Working shot	SE	08/04/15
013	013	Post excavation shot of Trench 57	S	08/04/15
014	014	Shot of context (004)	E	08/04/15
015	015	Shot of context (004)	SE	08/04/15
016	016	Post excavation shot of Trench 54	SE	08/04/15
017	017	Post excavation shot of Trench 55	SE	08/04/15
018	018	Post excavation shot of Trench 52	SE	08/04/15
019	019	Post excavation shot of Trench 51	SE	08/04/15
020	020	Post excavation shot of Trench 49	W	08/04/15
021	021	Post excavation shot of Trench 48	E	08/04/15
022	022	Post excavation shot of Trench 47	SE	08/04/15
023	023	Post excavation shot of Trench 46	WNW	08/04/15
024	024	Post excavation shot of Trench 45	W	08/04/15
025	025	Mid excavation shot of possible rubble drain [007]	NW	08/04/15
026	026	Mid excavation shot of possible rubble drain [007]	NW	08/04/15
027	027	Mid excavation shot of possible rubble drain [007]	N	08/04/15
028	028	Post excavation shot of Trench 44	NW	08/04/15
029	029	Post excavation shot of Trench 43	WSW	08/04/15
030	030	Post excavation shot of Trench 42	E	10/04/15



Image No.	Digital	Description	From	Date
031	031	Post excavation shot of Trench 41	W	10/04/15
032	032	Post excavation shot of Trench 40	SE	10/04/15
033	033	Post excavation shot of Trench 39	WNW	10/04/15
034	034	Post excavation shot of Trench 37	SE	10/04/15
035	035	Post excavation shot of Trench 38	E	10/04/15
036	036	Post excavation shot of Trench 39 (2 <sup>nd</sup> shot)	E	10/04/15
037	037	Post excavation shot of Trench 36	NW	10/04/15
038	038	Mid/post excavation shot of possible rubble drain [007]	SSE	10/04/15
039	039	Mid/post excavation shot of possible rubble drain [007]	SSE	10/04/15
040	040	Post excavation shot of Trench 35	WNW	10/04/15
041	041	Shot of Cairn (008), Trench 34	NNE	10/04/15
042	042	Shot of Cairn (008), Trench 34	SE	10/04/15
043	043	Post excavation shot of Trench 34	NW	10/04/15
044	044	Working shot	-	10/04/15
045	045	Shot of section through Cairn (008), Oblique	N	13/04/15
046	046	Shot of section through Cairn (008), Oblique	N	13/04/15
047	047	Shot of section through Cairn (008)	NNW	13/04/15
048	048	Shot of section through Cairn (008)	ESE	13/04/15
049	049	Shot of section through Cairn (008)	ESE	13/04/15
050	050	Pre excavation shot of Cairn (009)	SSW	13/04/15
051	051	Pre excavation shot of Cairn (009)	SSW	13/04/15
052	052	Pre excavation shot of Cairn (010)	SW	13/04/15

Image No.	Digital	Description	From	Date
053	053	Pre excavation shot of Cairn (010)	SW	13/04/15
054	054	Post excavation shot of Trench 31	NW	13/04/15
055	055	Post excavation shot of Trench 28	NE	13/04/15
056	056	Post excavation shot of Trench 29	SW	13/04/15
057	057	Post excavation shot of Trench 27	NW	13/04/15
058	058	Post excavation shot of Trench 24	NE	13/04/15
059	059	Post excavation shot of Trench 25	NNE	13/04/15
060	060	Post excavation shot of Trench 23	SE	13/04/15
061	061	Post excavation shot of Trench 20	NE	13/04/15
062	062	Post excavation shot of Trench 21	NNE	13/04/15
063	063	Post excavation shot of Trench 22	NE	13/04/15
064	064	Post excavation shot of Trench 16	NE	13/04/15
065	065	Post excavation shot of Trench 9	NE	13/04/15
066	066	Post excavation shot of Trench 8	NE	13/04/15
067	067	Post excavation shot of Trench 5	NW	13/04/15
068	068	Post excavation shot of Trench 56	SW	14/04/15
069	069	Post excavation shot of Trench 53	ESE	14/04/15
070	070	Shot of Cairn 1 (013), Trench C	WNW	14/04/15
071	071	Shot of Cairn 1 (013), Trench C	WNW	14/04/15
072	072	Shot of Cairn 1 (013), Trench C	ESE	14/04/15
073	073	Shot of Cairn (008)	N	14/04/15
074	074	WSW facing section of Cairn (008)	WSW	14/04/15

Image No.	Digital	Description	From	Date
075	075	Pre excavation view of Cairn 2 (014), Trench D	E	14/04/15
076	076	Pre excavation view of Cairn 2 (014), Trench D	E	14/04/15
077	077	Pre excavation view of Cairn 2 (014), Trench D	NE	14/04/15
078	078	Pre excavation view of Cairn 2 (014), Trench D	SW	14/04/15
079	079	Mid excavation shot of Cairn 1 (013), Trench C	NNE	14/04/15
080	080	Post excavation shot of Cairn 1 (013), Trench C	N	14/04/15
081	081	SE facing section of Cairn 2 (014), Trench D	E	15/04/15
082	082	Post excavation shot of Cairn 2 (014), Trench D	NE	15/04/15
083	083	NE facing section of Cairn 2 (014), Trench D	NNE	15/04/15
084	084	Working/general shot	-	15/04/15
085	085	Working/general shot	-	15/04/15
086	086	Working/general shot	-	15/04/15
087	087	Working/general shot	-	15/04/15
088	088	Working/general shot	-	15/04/15
089	089	Working/general shot	-	15/04/15
090	090	Working/general shot	-	15/04/15
091	091	Working/general shot	-	15/04/15
092	092	Working/general shot	-	15/04/15
093	093	Working/general shot	-	15/04/15
094	094	Working/general shot	-	15/04/15
095	095	Working/general shot	-	15/04/15
096	096	Working/general shot	-	15/04/15

Image No.	Digital	Description	From	Date
097	097	Working/general shot	-	15/04/15
098	098	Pre excavation shot of boulder NE of Structure 2	SW	16/04/15
099	099	Mid excavation shot of Trench B	SE	17/04/15
100	100	Mid excavation shot of Trench B	NW	17/04/15

## Photographic Record 2

Image No.	Digital	Description	From	Date
001	001	Shot of boulder NE of Structure 2	ENE	21/04/15
002	002	Shot of boulder NE of Structure 2	S	21/04/15
003	003	Post excavation shot of boulder NE of Structure 2	NNW	21/04/15
004	004	Post excavation shot of boulder NE of Structure 2	SW	21/04/15
005	005	Post excavation shot of boulder NE of Structure 2	WSW	21/04/15
006	006	Shot of area after boulder removal NE of Structure 2	SW	21/04/15
007	007	Post excavation shot of Trench 7	ESE	21/04/15
008	008	Post excavation shot of Trench 6	NNE	21/04/15
009	009	Post excavation shot of Trench 6	WSW	21/04/15
010	010	Post excavation shot of Trench 10	E	21/04/15
011	011	Post excavation shot of Trench 12	SW	21/04/15
012	012	Post excavation shot of Trench 13	SW	21/04/15
013	013	Post excavation shot of Trench 15	SSW	21/04/15
014	014	Post excavation shot of Trench 17	SSE	21/04/15

Image No.	Digital	Description	From	Date
015	015	Post excavation shot of Trench 18	SW	21/04/15
016	016	Post excavation shot of Trench 19	NE	21/04/15
017	017	Post excavation shot of Trench 26	SW	21/04/15
018	018	Post excavation shot of Trench 30	WSW	21/04/15
019	019	Large, possibly structural, stones [025] underlying rubble (016) at Structure 1	NW	22/04/15
020	020	Mid excavation shot of Trench A	SSE	23/04/15
021	021	Close up shot of wall [015] within Trench A	SSE	23/04/15
022	022	Mid excavation shot of Trench A	NNW	23/04/15
023	023	Mid excavation shot of Trench A, close up	NNW	23/04/15
024	024	SW facing section of Trench A and wall [015]	W	23/04/15
025	025	SW facing section of Trench A and wall [015]	WSW	23/04/15
026	026	SW facing section (NW end) of Trench A	WSW	23/04/15
027	027	SW facing section (NW end and central) of Trench A	WSW	23/04/15
028	028	SW facing section (SE end) of Trench A	SW	23/04/15
029	029	Post excavation shot of Structure 1 with wall removed	SSE	23/04/15
030	030	Post excavation shot of Structure 1 with wall removed	NNW	23/04/15
031	031	Post excavation shot of Structure 1 with section of wall removed	WNW	23/04/15
032	032	Post excavation shot of Structure 1, oblique	NW	23/04/15
033	033	Post excavation shot of Trench B	ESE	23/04/15
034	034	WSW facing section of (022)	WSW	24/04/15
035	035	ENE facing section of (019)	ENE	24/04/15
036	036	ENE facing section of (019) and interior	N	24/04/15

Image No.	Digital	Description	From	Date
037	037	WSW facing section of Trench B with cart tracks over (023)	WSW	24/04/15

*Drawing Register*

Drawing No.	Sheet No.	Area/ Trench	Drawing Type	Scale	Description	Drawer	Date
1	1	50	Plan	1:100	Plan of Trench 50	DIG	08/04/15
2	1	57	Plan	1:100	Plan of Trench 57	DIG	08/04/15
3	1	55	Plan	1:100	Plan of Trench 55	DIG	08/04/15
4	1	54	Plan	1:100	Plan of Trench 54	DIG	08/04/15
5	1	52	Plan	1:100	Plan of Trench 52	DIG	08/04/15
6	2	51	Plan	1:100	Plan of Trench 51	DIG	08/04/15
7	2	49	Plan	1:100	Plan of Trench 49	DIG	08/04/15
8	2	48	Plan	1:100	Plan of Trench 48	DIG	08/04/15
9	2	47	Plan	1:100	Plan of Trench 47	DIG	08/04/15
10	2	46	Plan	1:100	Plan of Trench 46	DIG	08/04/15
11	3	45	Plan	1:100	Plan of Trench 45	DIG	08/04/15
12	3	44	Plan	1:100	Plan of Trench 44	DIG	08/04/15
13	3	43	Plan	1:100	Plan of Trench 43	DIG	08/04/15
14	3	41	Plan	1:100	Plan of Trench 41	DIG	10/04/15
15	3	42	Plan	1:100	Plan of Trench 42	DIG	10/04/15
16	3	40	Plan	1:100	Plan of Trench 40	DIG	10/04/15
17	3	39	Plan	1:100	Plan of Trench 39	DIG	10/04/15
18	4	35	Plan	1:100	Plan of Trench 35	LMcK	10/04/15

Drawing No.	Sheet No.	Area/ Trench	Drawing Type	Scale	Description	Drawer	Date
19	4	34	Plan	1:100	Plan of Trench 34	LMcK	10/04/15
20	4	38	Plan	1:100	Plan of Trench 38	LMcK	10/04/15
21	4	37	Plan	1:100	Plan of Trench 37	LMcK	10/04/15
22	4	36	Plan	1:100	Plan of Trench 36	LMcK	10/04/15
23	5	31	Plan	1:100	Plan of Trench 31	DIG	13/04/15
24	5	28	Plan	1:100	Plan of Trench 28	DIG	13/04/15
25	5	29	Plan	1:100	Plan of Trench 29	DIG	13/04/15
26	5	27	Plan	1:100	Plan of Trench 27	DIG	13/04/15
27	5	25	Plan	1:100	Plan of Trench 25	DIG	13/04/15
28	6	24	Plan	1:100	Plan of Trench 24	DIG	13/04/15
29	6	23	Plan	1:100	Plan of Trench 23	DIG	13/04/15
30	6	20	Plan	1:100	Plan of Trench 20	DIG	13/04/15
31	6	21	Plan	1:100	Plan of Trench 21	DIG	13/04/15
32	7	22	Plan	1:100	Plan of Trench 22	DIG	14/04/15
33	7	16	Plan	1:100	Plan of Trench 16	DIG	14/04/15
34	-	-	-	-	Void	-	-
35	7	8	Plan	1:100	Plan of Trench 8	DIG	14/04/15
36	7	5	Plan	1:100	Plan of Trench 5	DIG	14/04/15
37	7	56	Plan	1:100	Plan of Trench 56	DIG	14/04/15
38	7	53	Plan	1:100	Plan of Trench 53	DIG	14/04/15
39	-	-	-	-	Void	-	-
40	8	D	Section	1:10	NE face of Cairn 2, Trench D.	LMcK	14/04/15
41	8	D	Section	1:10	SE face of Cairn 2, Trench D.	LMcK	14/04/15

Drawing No.	Sheet No.	Area/ Trench	Drawing Type	Scale	Description	Drawer	Date
42	9	D	Plan	1:10	Pre excavation plan of Cairn 2, Trench D.	LMcK	14/04/15
43	-	-	-	-	Void	-	-
44	11	B	Plan	1:20	Pre excavation plan of Structure 2, Trench B.	LMcK	21/04/15
45	11	A	Plan	1:20	Pre excavation plan of Structure 1, Trench A.	LMcK	21/04/15
46	12	7	Plan	1:100	Plan of Trench 7	DIG	21/04/15
47	12	6	Plan	1:100	Plan of Trench 6	DIG	21/04/15
48	12	11	Plan	1:100	Plan of Trench 11	DIG	21/04/15
49	12	10	Plan	1:100	Plan of Trench 10	DIG	21/04/15
50	12	12	Plan	1:100	Plan of Trench 12	DIG	21/04/15
51	12	13	Plan	1:100	Plan of Trench 13	DIG	21/04/15
52	12	15	Plan	1:100	Plan of Trench 15	DIG	21/04/15
53	12	17	Plan	1:100	Plan of Trench 17	DIG	21/04/15
54	12	18	Plan	1:100	Plan of Trench 18	DIG	21/04/15
55	13	19	Plan	1:100	Plan of Trench 19	DIG	21/04/15
56	13	26	Plan	1:100	Plan of Trench 26	DIG	21/04/15
57	13	30	Plan	1:100	Plan of Trench 30	DIG	21/04/15
58	14	A	Plan	1:20	Mid excavation (overlay) plan of Structure 1, Trench A.	LMcK	23/04/15
59	15	A	Plan	1:10	WSW facing section of Structure 1, Trench A.	LMcK	24/04/15



## Appendix 3: Discovery & Excavation in Scotland

<b>LOCAL AUTHORITY:</b>	South Lanarkshire
<b>PROJECT TITLE/SITE NAME:</b>	Cloburn Quarry Extension
<b>PROJECT CODE:</b>	RA13069
<b>PARISH:</b>	Pettinain
<b>NAME OF CONTRIBUTOR:</b>	Douglas Gordon
<b>NAME OF ORGANISATION:</b>	Rathmell Archaeology Limited
<b>TYPE(S) OF PROJECT:</b>	Evaluation
<b>NMRS NO(S):</b>	NS94SE 16
<b>SITE/MONUMENT TYPE(S):</b>	Cairn
<b>SIGNIFICANT FINDS:</b>	Lithics.
<b>NGR</b> (2 letters, 8 or 10 figures)	NS 9521 4149
<b>START DATE</b> (this season)	7 <sup>th</sup> April 2015
<b>END DATE</b> (this season)	20 <sup>th</sup> April 2015
<b>PREVIOUS WORK</b> (incl. DES ref.)	SUAT 2003 <i>An Archaeological Upland Survey at Swaites Hill by Pettinain, Lanarkshire</i> . Unpublished Report (DES)
<b>MAIN (NARRATIVE) DESCRIPTION:</b> (may include information from other fields)	<p>A programme of archaeological investigative works was carried out for Cloburn Quarry Development Ltd respect of the quarry extension at Cloburn Quarry, Lanark, South Lanarkshire (CL/14/0140). The archaeological works were designed to determine the archaeological potential of the development area and hence inform the specification for mitigation of the impact on the archaeological remains within the development area.</p> <p>The works showed that previously identified structure (Canmore ID:47645) was in all likelihood a prehistoric cairn, with the presence of struck flint further supporting a prehistoric date for the feature</p>
<b>PROPOSED FUTURE WORK:</b>	Yes
<b>CAPTION(S) FOR ILLUSTRS:</b>	None
<b>SPONSOR OR FUNDING BODY:</b>	Cloburn Quarry Development Ltd
<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	Unit 8 Ashgrove Workshops, Kilwinning, Ayrshire KA13 6PU
<b>EMAIL ADDRESS:</b>	contact@rathmell-arch.co.uk
<b>ARCHIVE LOCATION</b> (intended/deposited)	Report to West of Scotland Archaeology Service and archive to RCAHMS Collections.

## Contact Details

68. Rathmell Archaeology can be contacted at our Registered Office or through the web:  
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69. The West of Scotland Archaeology Service can be contacted at their office or through the web:  
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